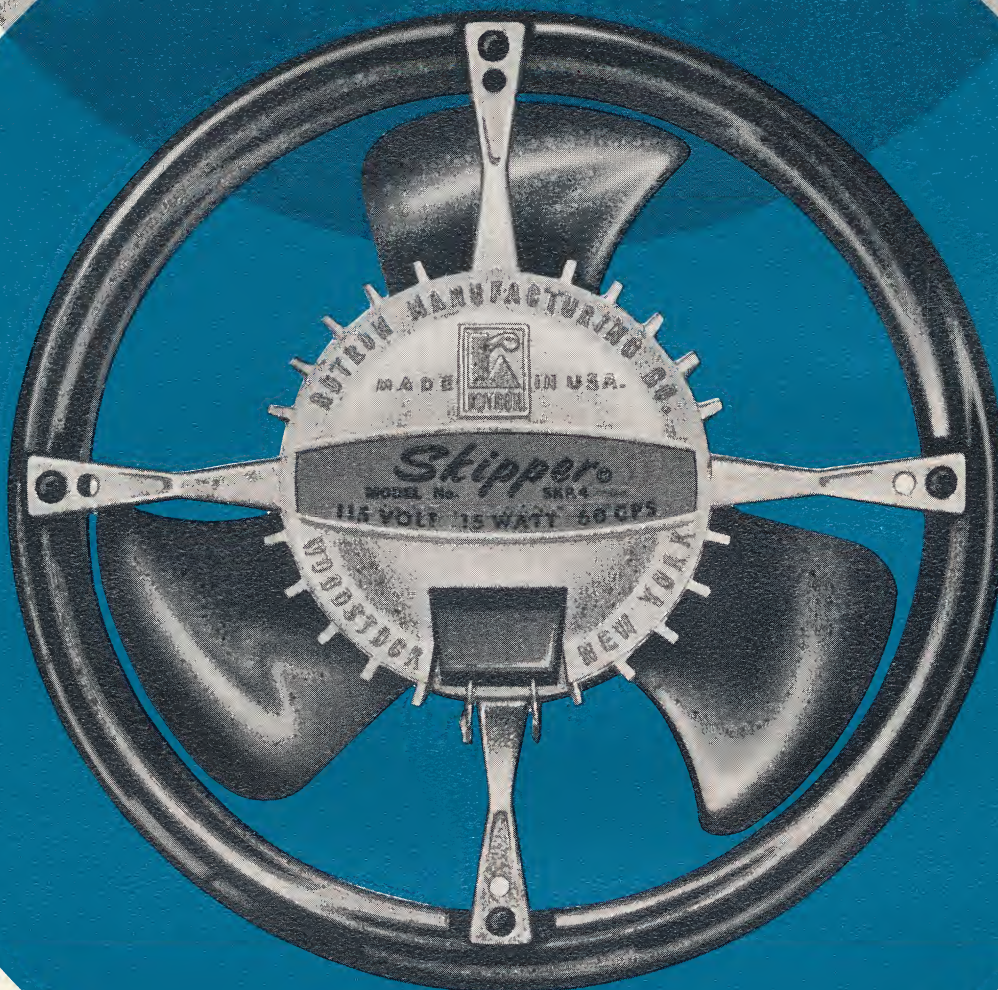
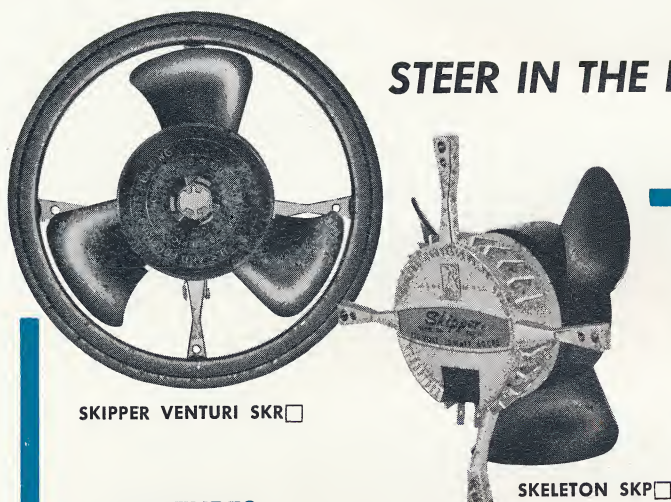




THE *Skipper*® FAN

signals real economy in cooling - \$4.00 in quantity



SKIPPER VENTURI SKR □

SKELETON SKP □

FEATURES

Less than \$4.00 in quantity
 Requires **NO MOUNTING SCREWS**
 Saves installation time — requires **NO HOLES FOR MOUNTING HARDWARE**
 Mounts easily anywhere on any panel thickness, even glass
 100 cfm
 Rotron designed with Rotron reliability and more

Designed to meet UL Specifications
 Impedance protected
 Designed to operate in temperatures up to 140°F (60°C)
 Quiet — just 38 db SIL
 Thin — only 1 1/16"
 Small Diameter — 5 3/16"
 Lightweight — 14 oz.
 Reversible air direction (using optional plate part no. 19561-2)
 Aluminum housing dissipates motor heat to insure long life
 Re-oilable with Rotron M-21 oil
 Available in a complete range of voltages and frequencies
 Complete accessories (plug and cord, finger guard, etc.)
 Alternate mounting arrangements (shown on next page)

Up to three Skipper Fans can be operated from DC power using Rotron Batac as a solid-state inverter.

THE SKIPPER LEAVES YOU NO OTHER CHOICE.

DESCRIPTION

The Skipper Fan signals the best in really economical electronic cooling. It is handsomely designed and delivers 100 cubic feet of cooling air every minute, every minute for years, to protect valuable equipment. It costs less than \$4.00 in quantity. And that's not all.

Rotron engineers had the customer in mind when they designed the Skipper Fan. It is designed to be sold economically and to save the customer additional costs as well. It can be installed without mounting nuts or bolts. It requires no mounting holes — just a hole for the air flow, the fan inserts there. That's all there is to it.

Complete accessories have been designed for the Skipper. These include plug and cord assembly, guards, boot to protect solder connections, and plates to give you a choice of mounting methods.

The Skipper has been designed to meet UL specifications. It is impedance protected and can be operated in temperatures up to 140°F (60°C). Versatile for thousands of applications and still less than \$4.00 in quantity.

WHERE TO USE

Anywhere you require 100 cfm — computers, office equipment, transmitters, receivers, office copying equipment, sound systems, etc. It does not meet military specifications. (For military specification units refer to Rotron Sentinel and Spartan Fans).

MATERIALS

The Skipper is highly resistant to damage from mishandling. The Venturi is molded from unbreakable black polypropylene, the propeller from black polycarbonate. The motor housing and spider is die cast from high-strength aluminum (keeps the motor cool and insures long life).

The GRILLE (Part No. 20757) and Mounting PLATE (Part No. 19561-2) are black polypropylene.

The Keeper RING (Part No. 19342) and Solder BOOT (Part No. 20576) are black neoprene.

The CLAMP (Part No. 20575) is steel, finished in black.

TEMPERATURE RANGE

The Skipper will operate reliably in ambient temperatures up to 140°F (60°C).

LIFE AND LUBRICATION

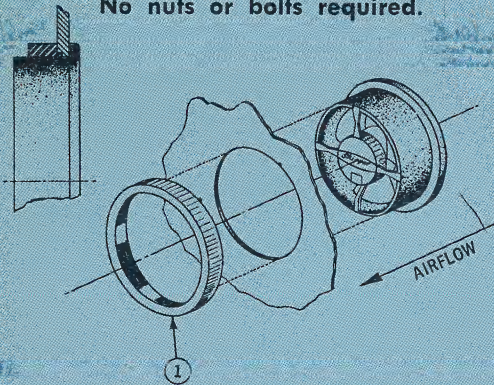
Under normal usage at room temperature and used during office hours, the Skipper Fan can be expected to last in excess of three years.

If the expected usage of the fan is all day, every day, then the life of the Skipper Fan can be extended with periodic lubrication. Under these conditions it is suggested that the fan be lubricated with Rotron M-21 oil after every six months of elapsed running time. If the operating temperature is above 120°F, the running time between lubrications should be three months.

When lubricated regularly, the fan life expectancy will be in excess of five years. For lubrication the Rotron Oiling Kit No. 19263 can be used.

MOUNTING DETAIL A

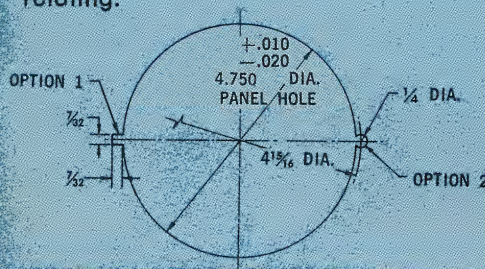
No nuts or bolts required.



Accessories required to mount one fan.

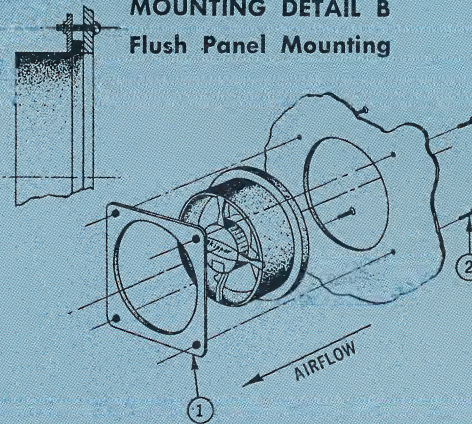
1. Keeper RING #19342 — 1 Required
\$0.35 each

Mount fan through panel on a $4\frac{3}{4}$ " diameter hole. Flange of fan is installed on inlet side of panel. Keeper RING is slipped over venturi of fan being careful to place side of RING marked panel side against panel and pushing RING tightly to panel. Projection on panel side of RING should be inserted into a small notch as on Diagram A to keep fan from rotating.



MOUNTING DETAIL B

Flush Panel Mounting

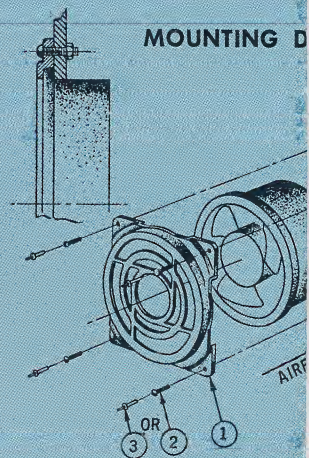


Accessories required to mount one fan.

1. CLAMP #20575 — 1 Required
\$0.40 each
2. Screws — #6-32 NC-2A (Length dependent on panel thickness — Not supplied by Rotron) 4 required.

Mount fan on panel over $4\frac{3}{4}$ " diameter hole. Slip CLAMP over fan venturi and insert screws through panel from opposite side into threaded holes in CLAMP.

MOUNTING DETAIL C



Accessories required to mount one fan.

1. GRILLE #20757 — 1 Required
2. #6-32 Screws — 4 required (Length determined by panel thickness — Not supplied by Rotron).
- or 3. Pop Rivets — 4 required (Not supplied by Rotron).

Mount fan through panel on a $4\frac{3}{4}$ " diameter hole. Attach GRILLE to fan flange with either screws or rivets. Underside of GRILLE is provided with Rivet Nuts can be used in place of nuts or screws.

MOTOR

The Skipper fan with its shaded-pole motor with oilable sleeve bearing is available in the following variations:

MOTOR TYPE CHART
Nominal Performance at Free Delivery

Model No.	Volts	CPS	Phase	RPM	Watts	Line Amps.	CFM
*SKR4	115	60	1	2900	15	0.18	100
*SKR6	115	50	1	2400	11	0.14	81
*SKR5	230	60	1	2900	15	0.1	100
*SKR7	230	50	1	2370	11	0.07	80
*SKR8	100	50	1	2400	12	0.17	81

*For Skeleton version substitute "P" for "R" in Model Number.

NOTE: Terminals that can take solder connection of leads or an optional Plug and Cord Assembly (Part No. 18944).

D.C. OPERATION

A recent development by Rotron is the Batac inverter to operate an A.C. motor from D.C. input power. A Batac can be provided to operate from 12 VDC (Model BC-100) or 28 VDC (Model BC-102). This permits brush-free operation of a fan solving

all the normal problems of D.C. powered fans with short brush life, short bearing life, and radio frequency noise generated by brush arcing. Special fans must be provided to go with these Batacs. The Batac will **not** operate the fans shown in the type chart on this sheet. A larger Batac which can operate 3 Skipper fans is also available. For additional information request Catalog Sheet K-6700.

SKIPPER SKELETON

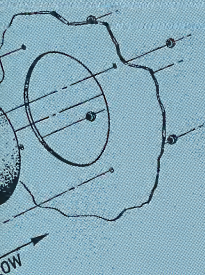
The Skipper fan can be supplied without the round venturi. When used this way the fan can be a stirring fan or it can be mounted to push or pull the air over a $4\frac{1}{4}$ " diameter hole. Mounting hole dimensions for mounting the Skipper fan are shown on the outline drawing. Order number SKP□ when Skeleton fan is desired.

ACOUSTICAL CHARACTERISTICS

The Skipper is designed for minimum acoustical disturbance. It's quiet, measuring only 38 db (SIL) — most suitable for computer rooms, test areas or other application areas where quietness is necessary.

G ARRANGEMENTS

DETAIL C



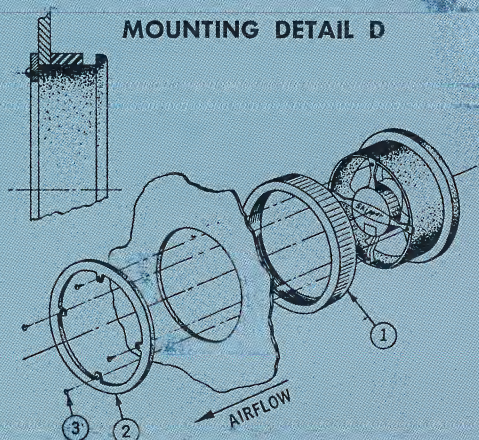
mount one fan.

Required
\$0.40 each
required. (Length
thickness. Not sup-

required (Not sup-

panel in a 4 3/4"
GRILLE over fan
s or Pop-Rivets.
relieved so that
d on panel in

MOUNTING DETAIL D



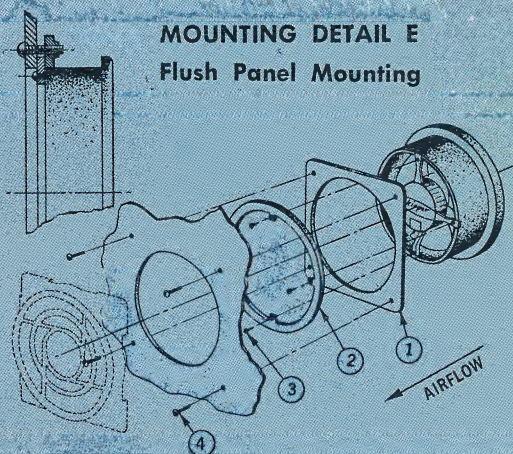
Accessories required to mount one fan.

1. Keeper RING #19342 — 1 required.
\$0.35 each
2. Mounting PLATE #19561-2 —
1 required \$0.45 each
3. #6-32 x 5/16" Type F Pan head self
tapping screws (Parker Kalon or equiva-
lent, not supplied by Rotron) 4 required.

First slip Keeper RING over fan venturi. Mount fan through panel in a 4 3/4" diameter hole with Keeper RING in place on venturi. Attach Mounting PLATE to fan aluminum spiders from other side of panel with self-tapping screws in holes provided on spiders. Slide Keeper RING up tight to panel to hold fan snug. Projection on panel side of RING should be inserted into a small notch as on Diagram A to keep fan from rotating.

MOUNTING DETAIL E

Flush Panel Mounting

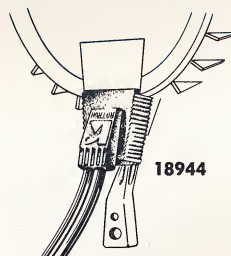
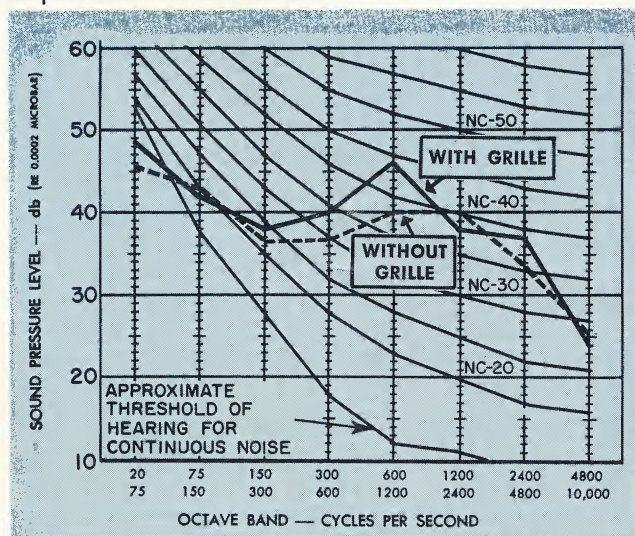


Accessories required to mount one fan.

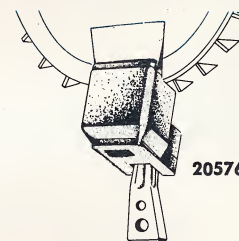
1. CLAMP #20575 — 1 required.
\$0.40 each
2. Mounting PLATE #19561-2 —
1 required \$0.45 each
3. #6-32 x 5/16" Type F Pan head self
tapping screws (Parker Kalon or equiva-
lent, not supplied by Rotron) 4 required.
4. Screws — #6-32 NC-2A (Length de-
pendent on panel thickness. Not sup-
plied by Rotron) 4 required.

Slip CLAMP over fan venturi. Attach Mounting PLATE to fan aluminum spiders with self-tapping screws in holes provided on spiders. Place fan on panel over 4 3/4" diameter hole with mounting PLATE against panel. Attach fan to panel with four #6-32 screws from the opposite side of panel into threaded holes in Clamping PLATE. GRILLE may also be attached to opposite side of panel with these screws.

The graph below describes nominal sound pressure level (SPL) reading from a typical Skipper Fan at a distance of three feet in an acoustically treated room. The procedure used for this test is outlined in Rotron Engineering Report MR-165 which will be sent upon request.



18944



20576

ELECTRICAL CONNECTIONS

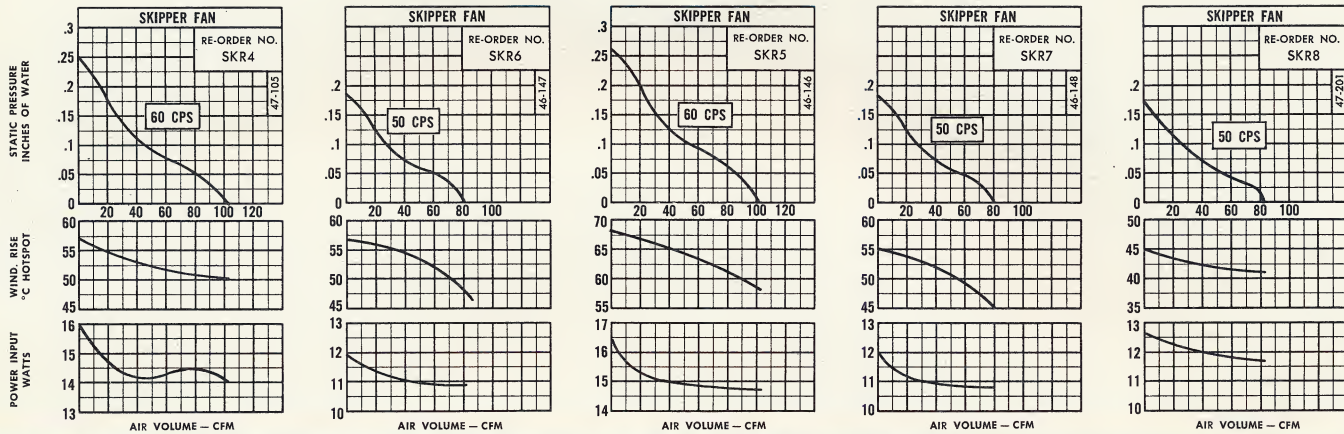
With any of the above mounting methods electrical connections can be made in two ways.

1. A plug and CORD assembly (Part No. 18944) can be used for instant hook-up. Eighteen gauge braidless parallel cord Type SPT-1 is provided — 24" long.

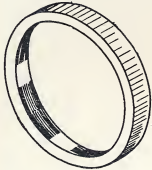
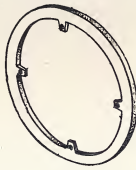
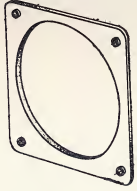
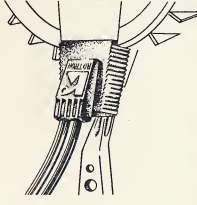
2. Lead wires can be soldered to the terminals. For this type of connection a Solder BOOT (Part No. 20576) to prevent short circuiting can be provided. This neoprene BOOT slips over the terminals clamping to the spider.

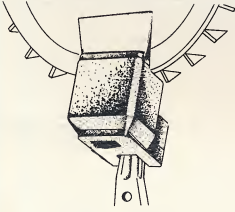
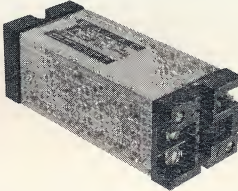
PERFORMANCE CURVES

(Refer to Motor Type Chart)



ACCESSORY ITEMS

RING	Mounting PLATE	CLAMP	GRILLE	PLUG & CORD
				
Part No. 19342 \$0.35	Part No. 19561-2 \$0.45	Part No. 20575 \$0.40	Part No. 20757 \$0.40	Part No. 18944 \$0.40

Solder BOOT	Oiling KIT	OIL	BATAC FOR DC OPERATION
			
Part No. 20576 \$0.15	Part No. 19263 \$2.50	Part No. 19263-4 \$1.25	Model BC-100 (12 VDC) or BC-102 (28 VDC) \$27.00

ORDERING INFORMATION

Select the model number from the Motor Type Chart for the voltage and frequency desired for your application. Order SKR* for Venturi Model — SKP* for Skeleton Model.

SKIPPER PRICES FROM AUTHORIZED ROTRON DISTRIBUTORS OFF-THE-SHELF

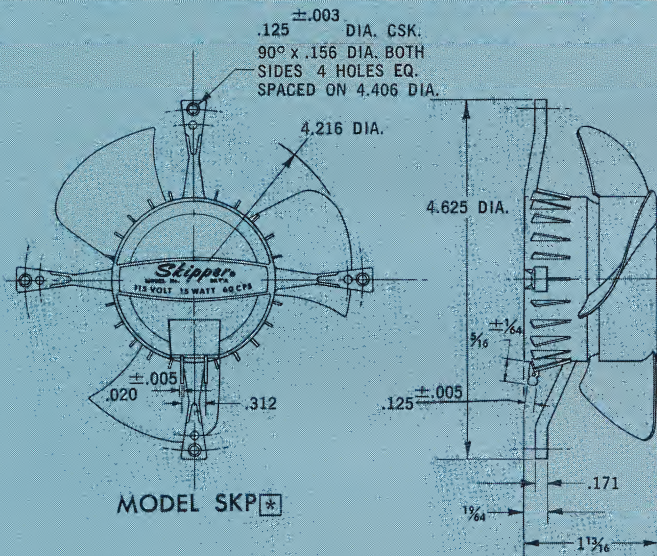
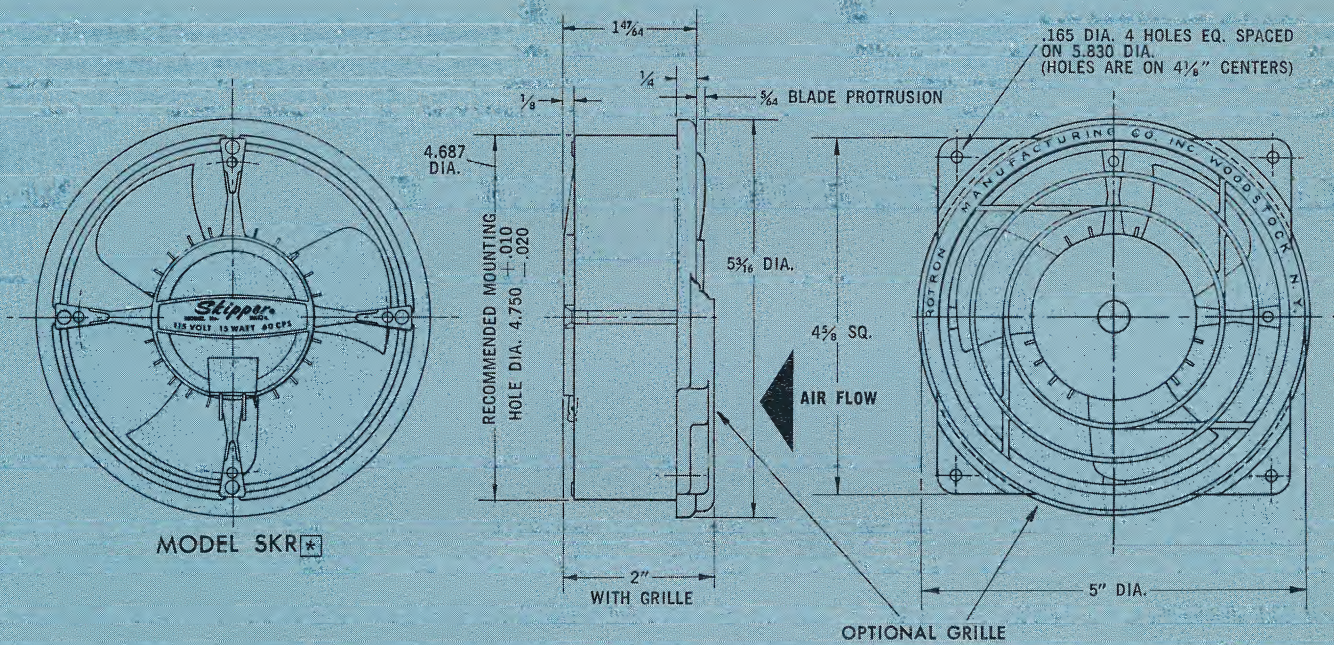
Model	1-9	10-24	25-49	50-99	100-499
SKR*	\$7.90	\$7.10	\$6.30	\$5.55	\$5.15
SKP*	\$7.40	\$6.65	\$5.90	\$5.20	\$4.80

Larger quantities at lower cost (less than \$4.00) must be ordered from the factory or through your local Rotron Representative.

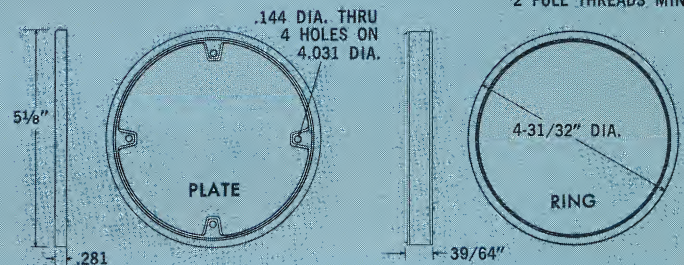
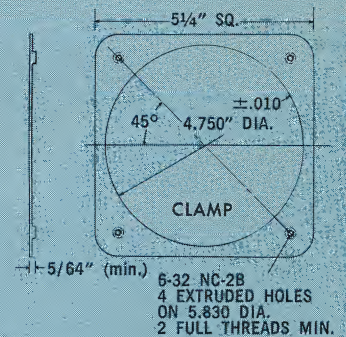
Model	1-9	10-24	25-49	50-99	100-249	250-499
BATAC (either model)	\$27.00	\$23.65	\$22.00	\$19.70	\$18.10	\$16.55

*See Motor Type Chart for Number to insert in this Box.

OUTLINE DRAWING



TOLERANCES	
Fractional Dim.	± 1/32
Decimal Dim.	± .010



*See Motor Type Chart motors have same dimensions.



ROTRON MANUFACTURING COMPANY, INC.
WOODSTOCK, NEW YORK

West Coast: ROTRON/PACIFIC, Glendale, California
Canada: THE HOOVER CO., LTD., Hamilton, Ontario
Rotron-Vactric Europa (N.V.) Breda, The Netherlands
Export Sales — AURIEMA INTERNATIONAL GROUP